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RAW SEQUENCE LISTING   DATE: 12/17/2001
PATENT APPLICATION: US/09/853,753   TIME: 15:04:49

Input Set : A:\ES.txt
Output Set: N:\CRF3\12172001\I853753.raw   **ENTERED**

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   3 <110> APPLICANT: Bech-Hansen, Torben
   5 <120> TITLE OF INVENTION: GPI-Anchored Small Leucine-Rich Proteoglycan Gene NYX
   7 <130> FILE REFERENCE: 45499-2
   9 <140> CURRENT APPLICATION NUMBER: US 09/853,753
C--> 10 <141> CURRENT FILING DATE: 2001-05-17
  12 <150> PRIOR APPLICATION NUMBER: CA 2,306,241
  13 <151> PRIOR FILING DATE: 2000-05-12
  15 <160> NUMBER OF SEQ ID NOS: 14
  17 <170> SOFTWARE: PatentIn version 3.1
  19 <210> SEQ ID NO: 1
  20 <211> LENGTH: 2297
  21 <212> TYPE: DNA
  22 <213> ORGANISM: Mus sp.
  24 <300> PUBLICATION INFORMATION:
  25 <301> AUTHORs: Bech-Hansen NT et al.
  26 <302> TITLE: Mutations in NYX, encoding the leucine-rich proteoglycan nyctalopin,
  27       cause X-linked complete congenital stationary night blindness
  28 <303> JOURNAL: Nature Genetics
  29 <304> VOLUME: 26
  30 <305> ISSUE: 3
  31 <306> PAGES: 319-323
  32 <307> DATE: 2000-11-01
  33 <308> DATABASE ACCESSION NO: GenBank / AF254868
  34 <309> DATABASE ENTRY DATE: 2000-12-23
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  47 acctggaccg gaacggcctg cgcttcctgg gcgagcgagc cttcggcacg ctgccgtcct   360
  49 tgcgccgcct gtcgctgcgc cacaacaacc tgtccttcat cacgcccggc gccttcaagg   420
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  53 cgcgcacctt cgcggcgctc agccgcctgc gccgcctaga cctagcagcc tgccgcctct   540
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 93 agggagaaca cagggacgtg ccactcgagg gggaggatgg tatggatttc tgcttttgtc   1740
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107 gtctgagatg tgttaggagg cgtttaaaac aaagatccag ttcatttact ccacagttat    2160
109 tcccagggct ggccctagcc acaaaggaac tttagggcag ggtagggaaa aaaggggcag    2220
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113 gttaaaccgg tttctct                                                   2297
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128              20                  25                  30
131 Ala Ala Cys Ala Cys Ser Thr Val Glu Arg Gly Cys Ser Val Arg Cys
132          35                  40                  45
135 Asp Arg Ala Gly Leu Leu Arg Val Pro Ala Glu Leu Pro Cys Glu Ala
136      50                  55                  60
139 Val Ser Ile Asp Leu Asp Arg Asn Gly Leu Arg Phe Leu Gly Glu Arg
140 65                  70                  75                  80
143 Ala Phe Gly Thr Leu Pro Ser Leu Arg Arg Leu Ser Leu Arg His Asn
144              85                  90                  95
147 Asn Leu Ser Phe Ile Thr Pro Gly Ala Phe Lys Gly Leu Pro Arg Leu
148             100                 105                 110
151 Ala Glu Leu Arg Leu Ala His Asn Gly Asp Leu Arg Tyr Leu His Ala
152         115                 120                 125
155 Arg Thr Phe Ala Ala Leu Ser Arg Leu Arg Arg Leu Asp Leu Ala Ala
156     130                 135                 140
159 Cys Arg Leu Phe Ser Val Pro Glu Arg Leu Leu Ala Glu Leu Pro Ala
160 145                 150                 155                 160
163 Leu Arg Glu Leu Ala Ala Phe Asp Asn Leu Phe Arg Arg Val Pro Gly
164                 165                 170                 175
167 Ala Leu Arg Gly Leu Ala Asn Leu Thr His Ala His Leu Glu Arg Gly
168             180                 185                 190
171 Arg Ile Glu Ala Val Ala Ser Ser Ser Leu Gln Gly Leu Arg Arg Leu
172         195                 200                 205
175 Arg Ser Leu Ser Leu Gln Ala Asn Arg Val Arg Ala Val His Ala Gly
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176     210                   215                   220
179 Ala Phe Gly Asp Cys Gly Val Leu Glu His Leu Leu Leu Asn Asp Asn
180 225                   230                   235                   240
183 Leu Leu Ala Glu Leu Pro Ala Asp Ala Phe Arg Gly Leu Arg Arg Leu
184                   245                   250                   255
187 Arg Thr Leu Asn Leu Gly Gly Asn Ala Leu Asp Arg Val Ala Arg Ala
188                   260                   265                   270
191 Trp Phe Ala Asp Leu Ala Glu Leu Glu Leu Leu Tyr Leu Asp Arg Asn
192           275                   280                   285
195 Ser Ile Ala Phe Val Glu Glu Gly Ala Phe Gln Asn Leu Ser Gly Leu
196           290                   295                   300
199 Leu Ala Leu His Leu Asn Gly Asn Arg Leu Thr Val Leu Ala Trp Val
200 305                   310                   315                   320
203 Ala Phe Gln Pro Gly Phe Phe Leu Gly Arg Leu Phe Leu Phe Arg Asn
204                   325                   330                   335
207 Pro Trp Cys Cys Asp Cys Arg Leu Glu Trp Leu Arg Asp Trp Met Glu
208           340                   345                   350
211 Gly Ser Gly Arg Val Thr Asp Val Pro Cys Ala Ser Pro Gly Ser Val
212           355                   360                   365
215 Ala Gly Leu Asp Leu Ser Gln Val Thr Phe Gly Arg Ser Ser Asp Gly
216           370                   375                   380
219 Leu Cys Val Asp Pro Glu Glu Leu Asn Leu Thr Thr Ser Ser Pro Gly
220 385                   390                   395                   400
223 Pro Ser Pro Glu Pro Ala Ala Thr Thr Val Ser Arg Phe Ser Ser Leu
224                   405                   410                   415
227 Leu Ser Lys Leu Leu Ala Pro Arg Val Pro Val Glu Glu Ala Ala Asn
228           420                   425                   430
231 Thr Thr Gly Gly Leu Ala Asn Ala Ser Leu Ser Asp Ser Leu Ser Ser
232           435                   440                   445
235 Arg Gly Val Gly Gly Ala Gly Arg Gln Pro Trp Phe Leu Leu Ala Ser
236           450                   455                   460
239 Cys Leu Leu Pro Ser Val Ala Gln His Val Val Phe Gly Leu Gln Met
240 465                   470                   475                   480
243 Asp
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248 <211> LENGTH: 20
249 <212> TYPE: DNA
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253 <223> OTHER INFORMATION: PCR primer
255 <220> FEATURE:
256 <221> NAME/KEY: misc_feature
257 <222> LOCATION: (1)..(20)
258 <223> OTHER INFORMATION: forward primer for polymorphism 506B13CA1 (DXS10042)
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267 <212> TYPE: DNA
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Input Set : A:\ES.txt
Output Set: N:\CRF3\12172001\I853753.raw

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285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial Sequence
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289 <223> OTHER INFORMATION: PCR primer
291 <220> FEATURE:
292 <221> NAME/KEY: misc_feature
293 <222> LOCATION: (1)..(21)
294 <223> OTHER INFORMATION: forward primer for polymorphism 200L4CA1 (DXS10044)
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310 <221> NAME/KEY: misc_feature
311 <222> LOCATION: (1)..(20)
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319 <210> SEQ ID NO: 7
320 <211> LENGTH: 20
321 <212> TYPE: DNA
322 <213> ORGANISM: Artificial Sequence
324 <220> FEATURE:
325 <223> OTHER INFORMATION: PCR primer
327 <220> FEATURE:
328 <221> NAME/KEY: misc_feature
329 <222> LOCATION: (1)..(20)
330 <223> OTHER INFORMATION: forward primer for polymorphism 169I5CA2 (DXS10045)
333 <400> SEQUENCE: 7
334 aaacttagct gggcatgctg                                              20
337 <210> SEQ ID NO: 8
338 <211> LENGTH: 21
339 <212> TYPE: DNA
340 <213> ORGANISM: Artificial Sequence
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Input Set : A:\ES.txt
Output Set: N:\CRF3\12172001\I853753.raw

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343 <223> OTHER INFORMATION: PCR primer
345 <220> FEATURE:
346 <221> NAME/KEY: misc_feature
347 <222> LOCATION: (1)..(21)
348 <223> OTHER INFORMATION: reverse primer for polymorphism 169I5CA2 (DXS10045)
351 <400> SEQUENCE: 8
352 gctgggacta catacagcac a                                          21
355 <210> SEQ ID NO: 9
356 <211> LENGTH: 21
357 <212> TYPE: DNA
358 <213> ORGANISM: Artificial Sequence
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361 <223> OTHER INFORMATION: PCR primer
363 <220> FEATURE:
364 <221> NAME/KEY: misc_feature
365 <222> LOCATION: (1)..(21)
366 <223> OTHER INFORMATION: forward primer for NYX expression
369 <400> SEQUENCE: 9
370 agggagtgga ggggacctca g                                          21
373 <210> SEQ ID NO: 10
374 <211> LENGTH: 18
375 <212> TYPE: DNA
376 <213> ORGANISM: Artificial Sequence
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381 <220> FEATURE:
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383 <222> LOCATION: (1)..(18)
384 <223> OTHER INFORMATION: reverse primer for NYX expression
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388 acggcacgga cgcggttg                                              18
391 <210> SEQ ID NO: 11
392 <211> LENGTH: 20
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401 <222> LOCATION: (1)..(20)
402 <223> OTHER INFORMATION: forward primer for W350X mutation
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VERIFICATION SUMMARY   DATE: 12/17/2001
PATENT APPLICATION: US/09/853,753   TIME: 15:04:50

Input Set : **A:\ES.txt**
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